

465 Electronic Controller for Heat Tracing of Fire Protection Piping



nVent Raychem 465 controller is a c-UL-us listed controller designed to freeze protect the fire sprinkler and fire protection piping per UL515A. This controller, as a part of the c-UL-us listed Raychem electric heat tracing system, provides an energy efficient, low installation cost and faster response solution than alternate methods such as dry systems or glycol systems.

FEATURES

Simple and fast to install and operate with colored touchscreen for easy navigation

Advanced features such as High Temperature cut-out which eliminates the need for 2nd thermostat on sprigs and reduces installation costs

Built-in ground fault protection functionality evaluated per UL1053 standard. Easily adjustable ground fault alarm and trip settings

Flexible and intuitive set-up reduces set-up time

USB port for firmware updates, download monitoring reports and remote battery powered setup

Built-in Form C Alarm relay with flexible set up for Normally Open/Normally Closed operation

Energy efficient proportional ambient sensing control mode (PASC)

SPECIFICATIONS

Table 1/4

| Catalog Number | Item Name | Supply Voltage | Ambient Temperature | Controller Temperature Setting | Output Relay | Alarm Relay |
|----------------|----------------|----------------|---------------------|--------------------------------|---|---|
| P000002339 | 465 Controller | 120 – 277 V | 0 – 40 °C | 0 – 80 °C | 24 A @ 120/208/240/277 +/-10% VAC: 50/60 Hz | Single Pole Single Throw Relay, Volt-free: Maximum Switching Capacity:1 A @ 24 VDC, 1 A @ 24 VAC |

Table 2/4

| Catalog Number | Item Name | Temperature Alarm | Ground Fault Alarm | Circuit Breaker | Power Consumption, Standby | Sensor Type |
|----------------|----------------|-------------------|--------------------|-----------------|----------------------------|--------------------------------------|
| P000002339 | 465 Controller | -40 to 88 °C | 20 – 200 mA | 30 A, Maximum | 9 W | Thermistor 2KΩ @ 77°F (25°C), 2-wire |

Table 3/4

| Catalog Number | Item Name | Sensor Temperature Range | Sensor Tip Diameter | Sensor Cable Length | NEMA Rating | Enclosure Material |
|----------------|----------------|--------------------------|---------------------|---------------------|-------------|--------------------|
| P000002339 | 465 Controller | -40 to 90 °C | 5 mm | 3 m | 12 | Polycarbonate |

Table 4/4

| Catalog Number | Item Name | Mounting | Height | Width | Depth |
|----------------|----------------|----------|--------|--------|-------|
| P000002339 | 465 Controller | DIN Rail | 90 mm | 210 mm | 85 mm |

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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